

Title (en)

IONOMER IMPREGNATION OF ELECTRODE SUBSTRATES FOR IMPROVED FUEL CELL PERFORMANCE

Title (de)

IMPRÄGNIERUNG MIT IONOMEREN VON ELEKTRODENSUBSTRATEN ZUR LEISTUNGSVERBESSERUNG VON BRENNSTOFFZELLEN

Title (fr)

IMPREGNATION AVEC DES IONOMERES DE SUBSTRATS D'ELECTRODES POUR OBTENIR DES PILES A COMBUSTIBLE A PERFORMANCES AMELIOREES

Publication

EP 1133805 B1 20020814 (EN)

Application

EP 99947161 A 19991014

Priority

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- US 17384598 A 19981016
- US 22250798 A 19981229

Abstract (en)

[origin: WO0024072A1] Liquid feed fuel cell performance can be increased by impregnating electrode substrates with a proton conducting ionomer prior to incorporation of the electrocatalyst, and optionally also after application of the electrocatalyst. Ionomer impregnation is particularly effective for direct methanol fuel cell anodes that comprise carbonaceous substrates.

IPC 1-7

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IPC 8 full level

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CPC (source: EP)

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